

CLAIMS

1. A high-function photocatalyst having its surface partially covered with a polymer having an anionic group.
- 5 2. The high-function photocatalyst according to claim 1, wherein the polymer is a linear polymer.
3. The high-function photocatalyst according to claim 1 or 2, wherein the photocatalyst is in a form of a fine powder with particle size of 0.04 to 1 μm .
- 10 4. The high-function photocatalyst according to any one of claims 1 to 3, wherein the polymer having an anionic group is poly(fluorine-substituted sulfonic acid) (for example, Nafion).
5. The high-function photocatalyst according to any
15 one of claims 1 to 4, wherein the photocatalyst is spherical.
6. The high-function photocatalyst according to any one of claims 1 to 5, wherein the photocatalyst is immobilized on a substrate.
- 20 7. A method of manufacturing a high-function photocatalyst comprising the steps of adding a spherical photocatalyst into a solution having a linear polymer having an anionic group dissolved in a solvent, stirring, and drying.
- 25 8. A method of manufacturing a high-function

photocatalyst comprising the steps of immobilizing a photocatalyst on a substrate of a film or the like, applying thereon a solution dissolving a polymer having an anionic group, and drying.